107TH CONGRESS 1ST SESSION

H. R. 3382

To amend the Atomic Energy Act of 1954 and the Energy Reorganization Act of 1974 to strengthen security at sensitive nuclear facilities.

IN THE HOUSE OF REPRESENTATIVES

NOVEMBER 29, 2001

Mr. Markey (for himself and Mrs. Lowey) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To amend the Atomic Energy Act of 1954 and the Energy Reorganization Act of 1974 to strengthen security at sensitive nuclear facilities.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "Nuclear Security Act
- 5 of 2001".
- 6 SEC. 2. DEFINITIONS.
- 7 Section 11 of the Atomic Energy Act of 1954 (42)
- 8 U.S.C. 2014) is amended—
- 9 (1) by redesignating subsection jj. as subsection
- ii.; and

1	(2) by adding at the end the following:
2	"jj. Design Basis Threat.—The term 'design basis
3	threat' means the design basis threat established by the
4	Commission under section 73.1 of title 10, Code of Fed-
5	eral Regulations (or any successor regulation developed
6	under section 170C).
7	"kk. Sensitive Nuclear Facility.—The term
8	'sensitive nuclear facility' means—
9	"(1) a commercial nuclear power plant and as-
10	sociated spent fuel storage facility;
11	"(2) a decommissioned nuclear power plant and
12	associated spent fuel storage facility;
13	"(3) a category I fuel cycle facility;
14	"(4) a gaseous diffusion plant; and
15	"(5) any other facility licensed by the Commis-
16	sion, or used in the conduct of an activity licensed
17	by the Commission, that the Commission determines
18	should be treated as a sensitive nuclear facility
19	under section 170C.".
20	SEC. 3. NUCLEAR SECURITY.
21	(a) In General.—Chapter 14 of the Atomic Energy
22	Act of 1954 (42 U.S.C. 2201 et seq.) is amended by add-
23	ing at the end the following:

1	"SEC. 170C. PROTECTION OF SENSITIVE NUCLEAR FACILI-
2	TIES AGAINST THE DESIGN BASIS THREAT.
3	"(a) Definitions.—In this section:
4	"(1) Nuclear security force.—The term
5	'nuclear security force' means the nuclear security
6	force established under subsection $(b)(1)$.
7	"(2) Fund.—The term 'Fund' means the Nu-
8	clear Security Fund established under subsection (f).
9	"(3) QUALIFICATION STANDARD.—The term
10	'qualification standard' means a qualification stand-
11	ard established under subsection $(e)(2)(A)$.
12	"(4) Security Plan.—The term 'security plan'
13	means a security plan developed under subsection
14	(b)(2).
15	"(b) Nuclear Security.—The Commission shall—
16	"(1) establish a nuclear security force, the
17	members of which shall be employees of the Com-
18	mission, to provide for the security of all sensitive
19	nuclear facilities against the design basis threat; and
20	"(2) develop and implement a security plan for
21	each sensitive nuclear facility to ensure the security
22	of all sensitive nuclear facilities against the design
23	basis threat.
24	"(c) Design Basis Threat.—
25	"(1) IN GENERAL.—Not later than 90 days
26	after the date of enactment of this section, and at

1	least once every 3 years thereafter, the Commission,
2	in consultation with the Assistant to the President
3	for Homeland Security, the Attorney General, the
4	Secretary of Defense, and other Federal, State, and
5	local agencies, as appropriate, shall revise the design
6	basis threat to include—
7	"(A) threats equivalent to—
8	"(i) the events of September 11,
9	2001;
10	"(ii) a physical, cyber, biochemical, or
11	other terrorist threat;
12	"(iii) an attack on a facility by mul-
13	tiple coordinated teams of a large number
14	of individuals;
15	"(iv) assistance in an attack from sev-
16	eral persons employed at the facility;
17	"(v) a suicide attack;
18	"(vi) a water-based or air-based
19	threat;
20	"(vii) the use of explosive devices of
21	considerable size and other modern weap-
22	onry;
23	"(viii) an attack by persons with a so-
24	phisticated knowledge of the operations of
25	a sensitive nuclear facility; and

1	"(ix) fire, especially a fire of long du-
2	ration; and
3	"(B) any other threat that the Commission
4	determines should be included as an element of
5	the design basis threat.
6	"(2) Reports.—The Commission shall submit
7	to Congress a report on each revision made under
8	paragraph (1).
9	"(d) SECURITY PLANS.—
10	"(1) In general.—Not later than 180 days
11	after the date of enactment of this section, the Com-
12	mission shall develop a security plan for each sen-
13	sitive nuclear facility to ensure the protection of
14	each sensitive nuclear facility against the design
15	basis threat.
16	"(2) Elements of the plan.—A security
17	plan shall prescribe—
18	"(A) the deployment of the nuclear secu-
19	rity force, including—
20	"(i) numbers of the members of the
21	nuclear security force at each sensitive nu-
22	clear facility;
23	"(ii) tactics of the members of the nu-
24	clear security force at each sensitive nu-
25	clear facility; and

1	"(iii) capabilities of the members of
2	the nuclear security force at each sensitive
3	nuclear facility;
4	"(B) other protective measures,
5	including—
6	"(i) designs of critical control systems
7	at each sensitive nuclear facility;
8	"(ii) restricted personnel access to
9	each sensitive nuclear facility;
10	"(iii) perimeter site security, internal
11	site security, and fire protection barriers;
12	"(iv) increases in protection for spent
13	fuel storage areas;
14	"(v) placement of spent fuel in dry
15	cask storage; and
16	"(vi) background security checks for
17	employees and prospective employees; and
18	"(C) a schedule for completing the require-
19	ments of the security plan not later than 18
20	months after the date of enactment of this sec-
21	tion.
22	"(3) Additional requirements.—A holder
23	of a license for a sensitive nuclear facility under sec-
24	tion 103 or 104 or the State or local government in
25	which a sensitive nuclear facility is located may peti-

tion the Commission for additional requirements in
the security plan for the sensitive nuclear facility.

- "(4) IMPLEMENTATION OF SECURITY PLAN.—
 Not later than 270 days after the date of enactment of this section, the Commission, in consultation with a holder of a license for a sensitive nuclear facility under section 103 or 104, shall, by direct action of the Commission or by order requiring action by the licensee, implement the security plan for the sensitive nuclear facility in accordance with the schedule under paragraph (2)(C).
- "(5) SUFFICIENCY OF SECURITY PLAN.—If at any time the Commission determines that the implementation of the requirements of the security plan for a sensitive nuclear facility is insufficient to ensure the security of the sensitive nuclear facility against the design basis threat, the Commission shall immediately submit to Congress and the President a classified report that—
- "(A) identifies the vulnerability of the sensitive nuclear facility; and
- 22 "(B) recommends actions by Federal, 23 State, or local agencies to eliminate the vulner-24 ability.
- 25 "(e) Nuclear Security Force.—

"(1) IN GENERAL.—Not later than 90 days after the date of the enactment of this section, the Commission, in consultation with other Federal agencies, as appropriate, shall establish a program for the hiring and training of the nuclear security force.

"(2) Hiring.—

- "(A) QUALIFICATION STANDARDS.—Not later than 30 days after the date of enactment of this section, the Commission shall establish qualification standards that individuals shall be required to meet to be hired by the Commission as members of the nuclear security force.
- "(B) EXAMINATION.—The Commission shall develop and administer a nuclear security force personnel examination for use in determining the qualification of individuals seeking employment as members of the nuclear security force.
- "(C) CRIMINAL AND SECURITY BACK-GROUND CHECKS.—The Commission shall require that an individual to be hired as a member of the nuclear security force undergo a criminal and security background check.

1	"(D) DISQUALIFICATION OF INDIVIDUALS
2	WHO PRESENT NATIONAL SECURITY RISKS.—
3	The Commission, in consultation with the heads
4	of other Federal agencies, as appropriate, shall
5	establish procedures, in addition to any back-
6	ground check conducted under subparagraph
7	(B), to ensure that no individual who presents
8	a threat to national security is employed as a
9	member of the nuclear security force.
10	"(3) Annual Proficiency Review.—
11	"(A) In General.—The Commission shall
12	provide that an annual evaluation of each mem-
13	ber of the nuclear security force is conducted
14	and documented.
15	"(B) Requirements for continu-
16	ATION.—An individual employed as a member
17	of the nuclear security force may not continue
18	to be employed in that capacity unless the eval-
19	uation under subparagraph (A) demonstrates
20	that the individual—
21	"(i) continues to meet all qualification
22	standards;
23	"(ii) has a satisfactory record of per-
24	formance and attention to duty; and

"(iii) has the knowledge and skills 1 2 necessary to vigilantly and effectively provide for the security of a sensitive nuclear 3 4 facility against the design basis threat. 5 "(4) Training.— "(A) IN GENERAL.—The Commission shall 6 7 provide for the training of each member of the 8 nuclear security force to ensure each member 9 has the knowledge and skills necessary to pro-10 vide for the security of a sensitive nuclear facil-11 ity against the design basis threat. 12 "(B) Training Plan.—Not later than 60 13 days after the date of enactment of this section, 14 the Commission shall develop a plan for the 15 training of members of the nuclear security 16 force. 17 "(C) USE OF OTHER AGENCIES.—The 18 Commission may enter into a memorandum of 19 understanding or other arrangement with any 20 other Federal agency with appropriate law en-

forcement responsibilities, to provide personnel,

resources, or other forms of assistance in the

training of members of the nuclear security

25 "(f) Nuclear Security Fund.—

force.

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1	"(1) Establishment.—There is established in
2	the Treasury of the United States a fund to be
3	known as the 'Nuclear Security Fund', which shall
4	be used by the Commission to administer programs
5	under this section to provide for the security of sen-
6	sitive nuclear facilities.
7	"(2) Deposits in the fund.—The Commis-
8	sion shall deposit in the Fund—
9	"(A) the amount of fees collected under
10	paragraph (5); and
11	"(B) amounts appropriated under sub-
12	section (g).
13	"(3) Investment of amounts.—
14	"(A) IN GENERAL.—The Secretary of the
15	Treasury shall invest such portion of the Fund
16	as is not, in the judgment of the Secretary of
17	the Treasury, required to meet current with-
18	drawals. Investments may be made only in in-
19	terest-bearing obligations of the United States.
20	"(B) Acquisition of obligations.—For
21	the purpose of investments under subparagraph
22	(A), obligations may be acquired—
23	"(i) on original issue at the issue
24	price; or

1	"(ii) by purchase of outstanding obli-
2	gations at the market price.
3	"(C) Sale of obligations.—Any obliga-
4	tion acquired by the Fund may be sold by the
5	Secretary of the Treasury at the market price.
6	"(D) CREDITS TO FUND.—The interest on,
7	and the proceeds from the sale or redemption
8	of, any obligations held in the Fund shall be
9	credited to and form a part of the Fund.
10	"(4) USE OF AMOUNTS IN THE FUND.—The
11	Commission shall use amounts in the Fund to pay
12	the costs of—
13	"(A) salaries, training, and other expenses
14	of the nuclear security force; and
15	"(B) developing and implementing security
16	plans.
17	"(5) Fee.—To ensure that adequate amounts
18	are available to provide assistance under paragraph
19	(4), the Commission shall assess licensees a fee in
20	an amount determined by the Commission.
21	"(g) Authorization of Appropriations.—There
22	are authorized to be appropriated such sums as are nec-
23	essary to carry out this section.".
24	(b) Implementation.—The Commission shall com-
25	plete the full implementation of the amendment made by

- 1 subsection (a) as soon as practicable after the date of en-2 actment of this Act, but in no event later than 270 days
- 4 (c) Technical and Conforming Amendment.—

after the date of enactment of this Act.

- 5 The table of contents for chapter 14 of the Atomic Energy
- 6 Act of 1954 (42 U.S.C. prec. 2011) is amended by adding
- 7 at the end the following:

"Sec. 170B. Uranium supply.

"Sec. 170C. Protection of sensitive nuclear facilities against the design basis threat.".

8 SEC. 4. OPERATION SAFEGUARDS AND RESPONSE UNIT.

- 9 Section 204 of the Energy Reorganization Act of
- 10 1974 (42 U.S.C. 5844) is amended by adding at the end
- 11 the following:
- 12 "(d) Operation Safeguards and Response
- 13 Unit.—

- 14 "(1) Definitions.—In this subsection:
- 15 "(A) Assistant director.—The term
- 16 'Assistant Director' means the Assistant Direc-
- tor for Operation Safeguards and Response.
- 18 "(B) Design basis threat.—The term
- 19 'design basis threat' has the meaning given the
- term in section 11 of the Atomic Energy Act of
- 21 1954 (42 U.S.C. 2014).
- 22 "(C) Sensitive nuclear facility.—The
- term 'sensitive nuclear facility' has the meaning

1	given the term in section 11 of the Atomic En-
2	ergy Act of 1954 (42 U.S.C. 2014).
3	"(D) Unit.—The term 'Unit' means the
4	Operation Safeguards and Response Unit estab-
5	lished under paragraph (2)(A).
6	"(2) Establishment of unit.—
7	"(A) In general.—There is established
8	within the Office of Nuclear Material Safety
9	and Safeguards the Operation Safeguards and
10	Response Unit.
11	"(B) Head of unit.—The Unit shall be
12	headed by the Assistant Director.
13	"(C) Duties.—The Assistant Director
14	shall—
15	"(i) establish a program for the con-
16	duct of operation safeguards and response
17	evaluations under paragraph (3); and
18	"(ii) establish a program for the con-
19	duct of emergency response exercises under
20	paragraph (4).
21	"(D) Mock terrorist team.—The per-
22	sonnel of the Unit shall include a Mock Ter-
23	rorist Team comprised of—
24	"(i) not fewer than 20 individuals
25	with advanced knowledge of special weap-

1	ons and tactics comparable to special oper-
2	ations forces of the Armed Forces;
3	"(ii) at least 1 nuclear engineer;
4	"(iii) for each evaluation at a sensitive
5	nuclear facility under paragraph (3), at
6	least 1 individual with knowledge of the
7	operations of the sensitive nuclear facility
8	who is capable of actively disrupting the
9	normal operations of the sensitive nuclear
10	facility; and
11	"(iv) any other individual that the As-
12	sistant Director determines should be a
13	member of the Mock Terrorist Team.
14	"(3) Operation safeguards and response
15	EVALUATIONS.—
16	"(A) In general.—Not later than 1 year
17	after the date of enactment of this subsection,
18	the Assistant Director shall establish an oper-
19	ation safeguards and response evaluation pro-
20	gram to assess the ability of each sensitive nu-
21	clear facility to defend against the design basis
22	threat.
23	"(B) Frequency of evaluations.—Not
24	less often than once every 2 years, the Assistant
25	Director shall conduct and document operation

safeguards and response evaluations at each sensitive nuclear facility to assess the ability of the members of the nuclear security force at the sensitive nuclear facility to defend against the design basis threat.

- "(C) ACTIVITIES.—The evaluation shall include 2 or more force-on-force exercises by the Mock Terrorist Team against the sensitive nuclear facility that simulate air, water, and land assaults (as appropriate).
- "(D) Criteria.—The Assistant Director shall establish criteria for judging the success of the evaluations.
- "(E) Corrective action.—If a sensitive nuclear facility fails to complete successfully an operation safeguards and response evaluation, the Commission shall require additional operation safeguards and response evaluations not less often than once every 6 months until the sensitive nuclear facility successfully completes an operation safeguards and response evaluation.
- "(F) Reports.—Not less often than once every year, the Commission shall submit to the Congress and the President a report that de-

scribes the results of each operation safeguards and response evaluation under this paragraph for the previous year.

"(4) Emergency response exercises.—

"(A) IN GENERAL.—Not later than 1 year after the date of enactment of this subsection, the Assistant Director, in consultation with the Assistant to the President for Homeland Security, the Director of the Federal Emergency Management Agency, the Attorney General, and other Federal, State, and local agencies, as appropriate, shall establish an emergency response program to evaluate the ability of Federal, State, and local emergency response personnel within a 50-mile radius of a sensitive nuclear facility to respond to a radiological emergency at the sensitive nuclear facility.

"(B) Frequency.—Not less often than once every 3 years, the Assistant Director shall conduct emergency response exercises to evaluate the ability of Federal, State, and local emergency response personnel within a 50-mile radius of a sensitive nuclear facility to respond to a radiological emergency at the sensitive nuclear facility.

1	"(C) Activities.—The response exercises
2	shall evaluate—
3	"(i) the response capabilities, response
4	times, and coordination and communica-
5	tion capabilities of the response personnel;
6	"(ii) the effectiveness and adequacy of
7	emergency response plans, including evacu-
8	ation plans; and
9	"(iii) the ability of response personnel
10	to distribute potassium iodide or other pro-
11	phylactic medicines in an expeditious man-
12	ner.
13	"(D) REVISION OF EMERGENCY RESPONSE
14	PLANS.—The Commission shall revise the emer-
15	gency response plan for a sensitive nuclear fa-
16	cility to correct for any deficiencies identified by
17	an evaluation under this paragraph.
18	"(E) Reports.—Not less often than once
19	every year, the Commission shall submit to
20	Congress and the President a report that
21	describes—
22	"(i) the results of each emergency re-
23	sponse exercise under this paragraph con-
24	ducted in the previous year; and

1	"(ii) each revision of an emergency re-
2	sponse plan made under subparagraph (D)
3	for the previous year.".
4	SEC. 5. POTASSIUM IODIDE.
5	(a) Amendment.—Chapter 19 of the Atomic Energy
6	Act of 1954 (42 U.S.C. 2015 et seq.) is amended by in-
7	serting after section 241 the following new section:
8	"Sec. 242. Potassium Iodide.—Not later than 6
9	months after the date of the enactment of this section,
10	the Commission shall—
11	"(1) ensure that stockpiles of potassium iodide
12	tablets sufficient to provide adequate protection to
13	the population have been established in individual
14	homes and at public facilities such as schools and
15	hospitals within 50 miles of a nuclear power plant;
16	"(2) ensure that stockpiles of potassium iodide
17	tablets sufficient to provide adequate protection to
18	the population have been established at public facili-
19	ties such as schools and hospitals within the area be-
20	tween 50 and 200 miles of a nuclear power plant;
21	"(3) establish a plan to provide for the utiliza-
22	tion of the stockpiles described in paragraphs (1)
23	and (2) by individuals located within 200 miles of a
24	nuclear power plant in the event of a release of

1	radionuclides, other than a release of amounts hav-
2	ing no significant public health consequences; and
3	"(4) transmit to the Congress a report—
4	"(A) on whether stockpiles have been es-
5	tablished as required by paragraphs (1) and
6	(2); and
7	"(B) on the utilization plan required under
8	paragraph (3).".
9	(b) Table of Contents Amendment.—The table
10	of contents of chapter 19 of the Atomic Energy Act of
11	1954 is amended by inserting after the item relating to
12	section 241 the following new item:

"Sec. 242. Potassium iodide.".

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